

**Table S11** *Oryza* and the outgroup species used in the phylogenetic study.

Oryza species	Genome group	GenBank Assembly Accession
<i>O. sativa japonica</i>	AA	GCA_000005425.2
<i>O. sativa indica</i>	AA	GCA_000004655.2
<i>O. rufipogon</i>	AA	GCA_000817225.1
<i>O. nivara</i>	AA	GCA_000576065.1
<i>O. barthii</i>	AA	GCA_000182155.3
<i>O. glaberrima</i>	AA	GCA_000147395.2
<i>O. glumaepatula</i>	AA	GCA_000576495.1
<i>O. meridionalis</i>	AA	GCA_000338895.2
Taxon A	AA	LONB00000000
Taxon B	AA	LONC00000000
<i>O. punctata</i>	BB	GCA_000573905.1
<i>O. brachyantha</i>	FF	GCA_000231095.2
<i>L. perrieri</i>	–	GCA_000325765.3